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NOTICE OF ALLOWANCE AND FEE(S) DUE

22850 7590 01/26/2010

OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P.

1940 DUKE STREET ALEXANDRIA, VA 22314 EXAMINER
MCCLENDON SANZA I

ART UNIT PAPER NUMBER

1796 DATE MAILED: 01/26/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/585,204	07/03/2006	Hideomi Koinuma	293227US0PCT	9587		
TITLE OF INVENTION; PROCESS FOR PRODUCING FILM OF LIQUID CRYSTAL POLYMER						

 APPLN. TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEE(S) DUE
 DATE DUE

 nonprovisional
 NO
 \$1510
 \$300
 \$0
 \$1810
 04/26/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notifical	form should be used to correspondence including d below or directed off tions.	or transmitting to ng the Patent, adv nerwise in Block	he ISSU vance of 1, by (a	JE FEE and PUBLICA rders and notification of a) specifying a new con	f ma resp	ON FEE (if requir aintenance fees wi ondence address;	ed). B ill be i and/or	locks 1 through 5 st nailed to the current (b) indicating a sepa	iould be completed wh correspondence address rate "FEE ADDRESS"	as for
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EXAM	INER	ART UNIT	,	CLASS-SUBCLASS	┚					
MCCLENDO		1796		430-020000						
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach ND RESIDENCE DAT. ess an assignce is ident h in 37 CFR 3.11. Comp	nge of Correspon Indication form ed. Use of a Cust TO BE PRINTE	dence tomer	2. For printing on the (I) the names of up or agents OR, alterna (2) the name of a sin registered attorney o 2 registered patent at listed, no name will t THE PATENT (print ot e data will appear on the T a substitute for filing a (B) RESIDENCE: (CT)	to 3 ative agle or ag ttorn be p type pat an as	3 registered patent ely, firm (having as a spent) and the name news or agents. If n rinted.	members of uponam	er a 2	scument has been filed	
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Advance Order - # of Copies				The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).).	
	s SMALL ENTITY state	is. See 37 CFR I.		b. Applicant is no lo						_
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be tes Patent and Tra	accepte ademark	d from anyone other than Office.	n the	e applicant; a regis	tered a	ttorney or agent; or th	e assignee or other party	in
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OBLON, SPIVA	K, MCCLELLAND	MCCLENDON, SANZA L			
1940 DUKE STRI		ART UNIT	PAPER NUMBER		
ALEXANDRIA, 1	VA 22314	1796			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 424 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 424 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)	
10/585,204	KOINUMA ET AL.	
Examiner	Art Unit	
Sanza I . McClendon	1796	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-86) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 11/24/2009.
- The allowed claim(s) is/are 1-13.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 - 1. A Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-946).
- Information Disclosure Statements (PTO/SB/08), Pacer No./Mail Date
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summery (PTO-413).
 Paper No./Mail Date
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. 🗌 Other ___

Application/Control Number: 10/585,204

Art Unit: 1796

DETAILED ACTION

Response to Amendment

- Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive
 and, therefore, the finality of that action is withdrawn.
- In response to the Amendment received on November 24, 2009, the examiner has carefully considered the
 amendments.

Priority

Receipt is acknowledged of translated foreign priority papers submitted on November 11, 2009.

Response to Arguments

Applicant's arguments, see Remarks/Translation, filed November 11, 2009, with respect to claims 1-13 have been fully considered and are persuasive. The rejection of claims 1-4, 7 and 10-13 under 35 USC 102(b) as being anticipated by Arai et al (JJAP, 2005) has been withdrawn. The rejection of claims 5-6 and 8-9 under 35 USC 103(a) as being unpatentable over Arai et al (JJAP, 2005) has been withdrawn. Applicant has perfected the benefit of foreign priority under 35 USC 119(a)-(d) with the submission of the certified English translation of the foreign application. Therefore Arai et al is not applicable prior art.

Allowable Subject Matter

- Claims 1-13 are allowed.
- The following is an examiner's statement of reasons for allowance: The prior art, alone or in combination, sets forth a film making method that includes forming a liquid crystal polymer evaporant by irradiating a thermothropic liquid crystal polymer capable of exhibiting optical anisotropy and having a melting point of 250 to 350 oC with a pulsed laser to evaporate the liquid crystal polymer and depositing and solidifying the evaporant on a surface to form a film of the thermothropic liquid crystal polymer on the surface. Itake et al sets forth PLD method of making pentene films; however this is distinguished from the instant invention in that pentene is not a polymer but a compound. Nakamura et al sets forth making films from PMMA, polyolefins, halogenated polyolefins, polyimides, and polyurea, however Nakamura et al is distinct from the instant invention in that Nakamura et al does not set forth PLD but CVD. Nishio et al sets forth PDL films from polyacrylonitrile, however the examiner finds no thermotropic or optical anisotropic properties for said polymer. Tsuboi et al sets forth films obtained laser ablation deposition of poly (N-vinylcarbazle); however the examiner finds no thermotropic or optical anisotropic properties for said polymer.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 1796

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sanza L. McClendon whose telephone number is (571) 272-1074. The examiner can normally be reached on Monday through Friday 7:30-+600.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Seidleck can be reached on (571) 272-1078. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Sanza L McClendon/ Primary Examiner Art Unit 1796

SMc